WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL



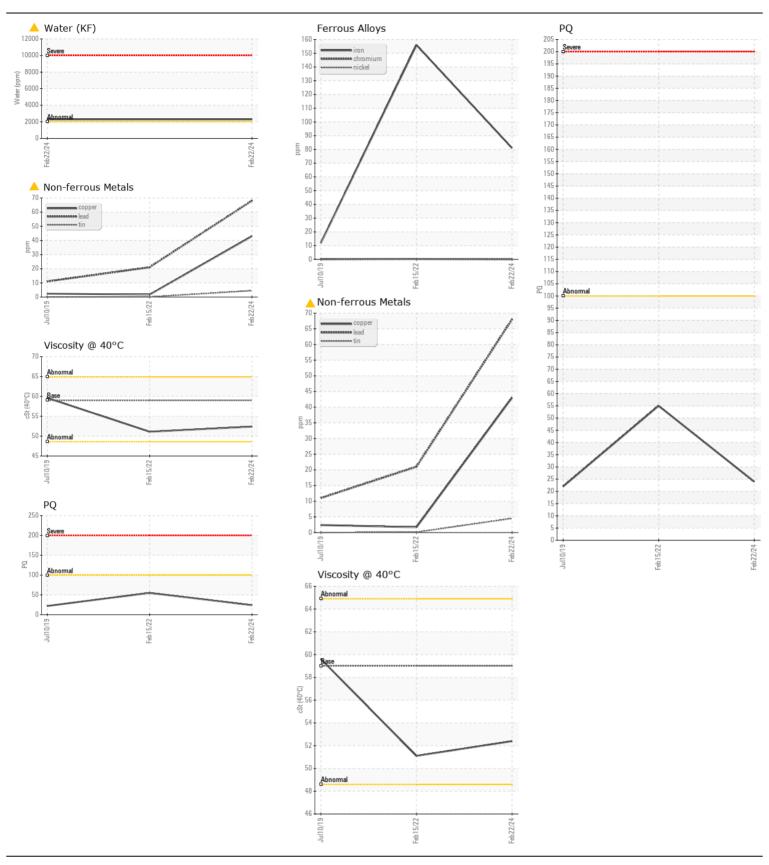
Area [W64350]

## **JOHN DEERE 544K 1DW544KZHJF687167**

Component **Brake** 

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (1 QTS)

JOHN DEERE HY-GARD HYDR	AULIC/RAN	SMIS	SION (1	QTS)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The fluid change at the time of sampling has been noted. No corrective action is recommended at this time. No corrective action is recommended at this time. ( Customer Sample Comment: W64350 )	Sample Number		Client Info		JR0204267	JR0119302	JRMC472137
	Sample Date		Client Info		22 Feb 2024	15 Feb 2022	10 Jul 2019
	Machine Age	hrs	Client Info		2139	1066	29
	Oil Age	hrs	Client Info		1073	0	29
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	SEVERE
WEAR	PQ		ASTM D8184		24	55	22
The lead level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>350	81	156	12
	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	6	25
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>8	<1	7	2
	Lead	ppm	ASTM D5185m	>10	<b>△</b> 68	21	11
	Copper	ppm	ASTM D5185m	>150	43	2	2
	Tin	ppm	ASTM D5185m	>5	4	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTM DE10E	400	4	070	<b>A</b> 1014
There is a light concentration of water present in the fluid.	Silicon	ppm	ASTM D5185m		4	270	1014
	Potassium Water	ppm o/	ASTM D5185m ASTM D6304	>0.2	1	3	15
	ppm Water	%	ASTM D6304		△ 0.228 △ 2280		
	Silt	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water			>0.2	<b>0.2%</b>	NEG	NEG
FLUID CONDITION  The condition of the fluid is acceptable for the time in service.	011		AOTM DEADE				9
	Sodium	ppm	ASTM D5185m ASTM D5185m		5	6	
	Boron Barium	ppm	ASTM D5185m		2 0	80	209
	Molybdenum	ppm	ASTM D5185m		0	22	48
	Manganese	ppm	ASTM D5185m		2	3	1
	Magnesium	ppm	ASTM D5185m		101	285	711
	Calcium	ppm	ASTM D5185m		3471	3292	1122
	Phosphorus	ppm	ASTM D5185m		1118	1081	619
	Zinc	ppm	ASTM D5185m		1278	1205	646
	Sulfur	ppm	ASTM D5185m		3612	3661	3420
	Visc @ 40°C	cSt	ASTM D445	59	52.4	51.1	59.6
	*100 W 70 U	001	עדדם ויוו טוי	00	J2.4	J1.1	55.5





Laboratory Sample No.

Lab Number : 06101931 Unique Number : 10900161

: JR0204267

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 27 Feb 2024 : 28 Feb 2024

: 29 Feb 2024 - Sean Felton

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269 Contact: CHARLOTTE SHOP

myoung@jamesriverequipment.com T: (704)597-0211 F: (704)596-6198

Test Package : CONST ( Additional Tests: KF, PQ ) To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)